Attorney Docket No.: MP0404.I

Applicant : Agmon Serial No. : 10/806,481

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In the Claims:

Please amend the claims as follows:

1. (original) A method for verifying a design of a circuit, comprising: providing a model of the design;

providing a first property for the design, wherein the first property describes a first behavior;

checking the model using the first property and an environment of the design starting at a reset state until an example of the first behavior occurs;

providing a second property for the design, wherein the second property describes a second behavior; and

checking the model using the second property and an environment of the design starting at a state when the example of the first behavior occurs.

- 2. (original) The method of claim 1, wherein providing the first property comprises: providing a statement in a specification language stating that the first behavior does not occur.
- 3. (original) The method of claim 2, wherein the environment of the design comprises one or more environment variables, and wherein checking the model using the first property comprises:

determining a set of values for the environment variables that causes the model of the design to show an example of the first behavior.

- 4. (original) The method of claim 1, further comprising:

 providing a state of the model of the design when the example of the first behavior occurs.
 - 5. (original) The method of claim 1, further comprising: providing the environment of the design starting at the reset state.

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6. (original) The method of claim 1, further comprising:

providing the environment of the design starting at a state when the example of the first behavior occurs.

7. (original) The method of claim 6:

wherein the environment of the design comprises one or more environment variables; wherein the model of the design comprises one or more model variables; and wherein providing the environment of the design starting at the state when the example of the first behavior occurs comprises at least one of the group consisting of:

describing the state when the example of the first behavior occurs; and providing the values of the environment variables and the model variables in each clock cycle preceding the example when the first behavior occurs.

8. (original) A computer program for verifying a design of a circuit, comprising: providing a model of the design;

providing a first property for the design, wherein the first property describes a first behavior;

checking the model using the first property and an environment of the design starting at a reset state until an example of the first behavior occurs;

providing a second property for the design, wherein the second property describes a second behavior; and

checking the model using the second property and an environment of the design starting at a state when the example of the first behavior occurs.

9. (original) The computer program of claim 8, wherein providing the first property comprises:

providing a statement in a specification language stating that the first behavior does not occur.

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10. (original) The computer program of claim 9, wherein the environment of the design comprises one or more environment variables, and wherein checking the model using the first property comprises:

determining a set of values for the environment variables that causes the model of the design to show an example of the first behavior.

- 11. (original) The computer program of claim 8, further comprising:

 providing a state of the model of the design when the example of the first behavior occurs.
 - 12. (original) The computer program of claim 8, further comprising: providing the environment of the design starting at the reset state.
- 13. (original) The computer program of claim 8, further comprising:

 providing the environment of the design starting at a state when the example of the first behavior occurs.
- 14. (original) The computer program of claim 13:

 wherein the environment of the design comprises one or more environment variables; wherein the model of the design comprises one or more model variables; and wherein providing the environment of the design at the state when the example of the first behavior occurs comprises at least one of the group consisting of:

describing the state when the example of the first behavior occurs; and providing the values of the environment variables and the model variables in each clock cycle preceding the example when the first behaviour occurs.

- 15. (new) A semiconductor verified by the method of claim 1.
- 16. (new) A semiconductor verified by the computer program of claim 8.